

JPRS-UAC-88-007

28 JUNE 1988



**FOREIGN
BROADCAST
INFORMATION
SERVICE**

JPRS Report

Soviet Union

AVIATION & COSMONAUTICS

TABLE OF CONTENTS

JPRS-UAC-87-001, 26 JUNE 1987 -

JPRS-UAC-87-006, 6 OCTOBER 1987

26 JUNE 1987

Soviet books and journal articles displaying a copyright notice are reproduced and sold by NTIS with permission of the copyright agency of the Soviet Union. Permission for further reproduction must be obtained from copyright owner.

SOVIET UNION AVIATION & COSMONAUTICS

No 1, January 1987

[Except where indicated otherwise in the table of contents the following is a complete translation of the Russian-language monthly journal AVIATSIYA I KOSMONAVTIKA published in Moscow.]

CONTENTS

Socialist Competition in Military Transport Aviation (pp 1-3) (A. Maslov)	1
Improving Air Force Navigator Training in Bomber Squadron (pp 4-5) (M. Makeyev)	8
Party Committee... on the Sidelines (pp 5-7) (G. Benov) (not translated)	
Oversight Strengthened (p 7) (Not translated)	
With Innovativeness in Contact (pp 8-9) (V. Timofeyev) (not translated)	
Helicopter Pilot Performs Heroic Deeds in Afghanistan (pp 10-11) (V. Rudenko)	11
FAC Sees Action in Afghanistan (pp 12-13) (V. Zdanyuk)	17
Individually With Each (pp 14-15) (V. Susloparov) (not translated)	
At the Leader's Call (p 16) (A. Kopevkin) (not translated)	

New Book on Applying "Human Factor" in the Military (p 17)	22
Flight Operations Radar, Radio Navigation and Communications Support Services (pp 18-19) (V. Zhderov)	27
Soviet Helicopter Maintenance Officer in Afghanistan (pp 20-21) (V. Dolzishev)	34
Major Shavurin's Two Rammings (pp 22-23) (L. Tsvulnikov) (not translated)	
First Metal Propeller (p 23) (A. Milekhin) (not translated)	
Right-Flankers (pp 24-25) (Not translated)	
Fighter-Bomber Squadron Commander Discusses Flight Safety (pp 26-27) (V. Antyufeyev)	39
Flight-Line Training Drills for Aircraft Servicing and Maintenance Personnel (p 28) (V. Mayorov)	44
Soviet Air-to-Air Tactics in Spanish Civil War: in the Skies Over Spain pp 29-31) (Yu. Kislyakov and V. Babich)	47
Heroic Journey (p 31) (I. Khomenko) (not translated)	
Solving Intercept Problem With Programmable Calculator (pp 32-33) (A. Kaynov)	54
U.S. Air Force Accused of Brainwashing Personnel (pp 34-36) (V. Goryainov)	63
Preventing Loss of Control on VTOL Aircraft Landing Approach (pp 36-37) (V. Vasenkov and V. Tarasenko)	69
Irate Parents Protest Offspring's Dismissal From Air Force School (pp 38-39) (A. Zhilin)	75
Two Sketches of Korolev (pp 40-42) (G. Vetrov) (not translated)	
Cosmonaut Describes Mir Space Station (pp 42-45) (L. Kizim)	80

Behest of the Times (pp 44-46)
(V. Yakunin) (not translated)

He Did Not Burn in the Flames (pp 46-47)
(Ye. Tolmachev) (not translated)

JPRS-UAC-87-002

16 SEPTEMBER 1987

Soviet books and journal articles displaying a copyright notice are reproduced and sold by NTIS with permission of the copyright agency of the Soviet Union. Permission for further reproduction must be obtained from copyright owner.

SOVIET UNION
AVIATION & COSMONAUTICS

No 2, February 1987

[Except where indicated otherwise in the table of contents the following is a complete translation of the Russian-language monthly journal AVIATSIIA I KOSMONAVTIKA published in Moscow.]

CONTENTS

Air Force CIC Urges Full Implementation of Perestroyka (pp 1-4) (A. Yefimov)	1
With Concern for Air Force Cadres (pp 4-5) (Ye. Sergeyev) (not translated)	
In a Position of Practical Return on Effort (pp 6-7) (V. Yeremin) (not translated)	
Problems of Learning Formation Flying (pp 8-9) (V. Aleynov)	9
Problems of Breaking in Newly-Commissioned Officers Discussed (pp 10-11) (V. Yusov and P. Korchemnyy)	13
A Life Devoted to Aviation (pp 12-13) (V. Vladimirov) (not translated)	
Performance Backslide by Fighter-Bomber Regiment (pp 14-15) (N. Chava)	19

Indoctrination by Drill (p 15) (V. Irikayev) (not translated)	
Helicopter Pilot Sees Combat in Afghanistan (pp 16-17) (Ye. Besschetnov)	23
Famed Division Commander (p 18) (V. Pinchuk) (not translated)	
Peculiarities of Weather in Mountainous Areas (pp 19-21) (V. Klepikov)	29
Hitting Targets on the Roads (pp 20-21) (A. Mikhaylov) (not translated)	
Squadron Deputy Commander for Political Affairs Flies Helicopter in Afghanistan (pp 22-23) (N. Antonov)	34
A Guardsman's Word Is Firm (pp 24-25) (Not translated)	
Pilots Violate Flight Safety Rules and Procedures (pp 26-27) (B. Kononenko)	40
Faulty Startup Procedure Damages Turboprop Engine (pp 26-27) (P. Karpenko and Yu. Kuzmin)	44
Helicopter Gunship Pilot Takes Crippling Fire in Afghanistan (pp 28-29) (V. Zhitenev)	47
Emergence of Russia's Air Force (pp 29-30) (B. Aleksandrov) (not translated)	
New Book on Rooting Out Religion, Superstitions in Military Personnel (pp 30-31)	51
Fighter Base Ground Logistic Support Personnel Seek Improved Job Performance (pp 32-33) (P. Stepanov)	55
1930's Soviet Pilots Gain Combat Experience in China, Mongolia (pp 34-35) (Yu. Kislyakov and V. Babich)	61
Computing Combat Maneuvering With Programmable Electronic Calculator (pp 36-37) (V. Dovbnya and V. Teryayev)	67
Clarion Alarm Call of Hiroshima (pp 38-39) (V. Roshchupkin) (not translated)	

Helicopters in Combat in Afghanistan (pp 40-41)	
(G. Karpenko)	76
Utility of Turn and Bank Indicator Stressed (p 41)	
(Yu. Uralev)	79
Kizim Describes Mir Space Station EVA (pp 42-44)	
(L. Kizim)	82
Using Satellites for Geodetic Measurements (pp 44-45)	
(G. Glabay)	88
NASA "Commercialization of Space" Claimed Ploy to Benefit SDI (pp 46-47)	
(Ye. Yermakov)	93

22 SEPTEMBER 1987

Soviet books and journal articles displaying a copyright notice are reproduced and sold by NTIS with permission of the copyright agency of the Soviet Union. Permission for further reproduction must be obtained from copyright owner.

SOVIET UNION AVIATION & COSMONAUTICS

No 3, March 1987

[Except where indicated otherwise in the table of contents the following is a complete translation of the Russian-language monthly journal AVIATSIYA I KOSMONAVTIKA published in Moscow.]

CONTENTS

Need for Reorientation in Personnel Policy Stressed (pp 1-3) (L. Batekhin).....	1
Reliance on Initiative (pp 4-5) (A. Shchurskiy) (Not translated)	
Increased Demands on Navigator Detailed (pp 5-6) (P. Makshakov).....	9
Stray from the Beaten Path (pp 7-9) (V. Krenev) (Not translated)	
Competition of Helicopter Gunship Crews Described (pp 8-9) (N. Tsvetov).....	13
Strengthened Resolve Needed to Counter Imperialist Threat (pp 10-11) (I. Filatov).....	16
Career of Test Pilot Yamshchikova (pp 12-13) (P. Guskov).....	22
Emergency and Survival Training of Pilots Stressed (pp 14-15) (Yu. Bondarenko).....	26

Officers' Personal Efforts Rewarded (pp 16-17) (P. Klebanyuk).....	30
Squadron Flight Safety Campaign Emphasized (pp 18-19) (V. Gorlov).....	35
Landing, Ground Visibility Relationship Analyzed (pp 18-20) (V. Nesteruk).....	39
Capt Ivaykin's Combat Sorties (pp 20-21) (V. Khromin) (Not translated)	
Seven Against Twenty-Five (pp 22-23) (N. Antonov) (Not translated)	
Youth Spreads Its Wings (pp 24-25) (Not translated)	
Psychological Interaction of Pilot, Controller Discussed (pp 26-27) (V. Smirnov).....	42
Roster, Acceptance Conditions of Air Forces Military Schools (pp 28-29)...	47
Steps for Prevention, Detection of Turboprop Engine Overheating(pp 29-30) (V. Zavyalov).....	52
A Matter for All the People (pp 30-31) (V. Cherepanov) (Not translated)	
DOSAAF <u>History</u> , Present Directions Discussed (pp 32-33) (S. Kharlamov).....	55
Development of Soviet Aerial Combat in 1930's (Conclusion) (pp 34-35) (Yu. Kislyakov and V. Babich).....	60
Programming Loops for Microcalculators (pp 36-37) (A. Andreyev and V. Rubin).....	66
Different Development of Young Officers Described (pp 38-39) (V. Ivanov).....	73
Reference Points in Flight Training (p 40) (A. Plotnikov and A. Safronov).....	78
'Space Russia' (p 41) (Ye. Mikhalkenkova) (Not translated)	
Markov Book on People Behind Interplanetary Station Development (p 41)....	82
History of Interkosmos Space Research Program Detailed (pp 42-43) (M. Rimsha).....	83

China's Space Program Described (pp 44-45) (V. Sirotin).....	87
Review of Book on SDI (pp 46-47) (I. Kuznetsov).....	91
Review of Book on Flexibly Linked Space Objects (p 47).....	95

23 SEPTEMBER 1987

Soviet books and journal articles displaying a copyright notice are reproduced and sold by NTIS with permission of the copyright agency of the Soviet Union. Permission for further reproduction must be obtained from copyright owner.

SOVIET UNION AVIATION & COSMONAUTICS

No 4, April 1987

[Except where indicated otherwise in the table of contents the following is a complete translation of the Russian-language monthly journal AVIATSIYA I KOSMONAVTIKA published in Moscow.]

CONTENTS

Soviet Space Initiatives, Cooperation Outlined (pp 1-3) (G. Titov)	1
Unfading Pages of History (pp 4-5) (Unattributed) (not translated)	
Wings of the People (pp 6-7) (L. Shishov) (not translated)	
Greater Creative Thinking, Planning in Air Tactical Exercises Urged (pp 8-9) (N. Tkach)	8
New Crew, Equipment for Mir Spacecraft System (p 9) (G. Glabay)	13
Service, Achievements of Top Helicopter Captain Described (p 10) (A. Popov)	15
Reliability (p 11) (Unattributed) (not translated)	
Career, Feat of Soviet Fighter Pilot Killed in Action in Afghanistan (pp 12-15) (Ye. Besschetnov)	18
The Creativity of Youth (pp 14-15) (Yu. Georgiyev) (not translated)	

In Sympathy With the Restructuring (pp 16-17) (V. Kazakov) (not translated)	
Cosmic Prospects and 'Star' Craziness (p 18) (N. Merkulov) (not translated)	
Time to Learn From Success (p 19) (A. Labkovskiy) (not translated)	
Greater Emphasis Urged for Use of In-flight Recording Equipment (pp 20-21) (V. Shishkin)	26
Book on Helicopter Development, Operations Reviewed (p 21) (Unattributed)	30
History, Projects of Intercosmos Program Described (pp 22-25) (M. Rimsha)	32
By Strafing Attack (pp 26-27) (I. Gusev) (not translated)	
Eternally in Memory (pp 26-27) (B. Ulyanov) (not translated)	
Better Physical Training in Field Flight Programs Recommended (pp 28-29) (V. Koltunov)	37
On the Hard Days of War (p 29) (Unattributed) (not translated)	
Successes in Training Young Helicopter Officers Described (pp 30-31) (A. Demin)	40
Visual Orientation With a PMK (p 32) (A. Kaynov) (not translated)	
A Template for the PMK (p 33) (A. Vishnyakov) (not translated)	
Calculating Air Firing Corrections (p 33) (K. Kostenyuk) (not translated)	
Greater Concern for Psychological Motivation in Flying Urged (pp 34-35) (V. Ponomarenko)	46
Internationalist Volunteers (pp 36-37) (V. Muravyev) (not translated)	
Emphasis Placed on Psychological Training of Ground Controllers (pp 38-39) (V. Smirnov)	52

Pre-World War II Midair Ramming Described (pp 40-41) (V. Paramonov)	56
Constant Vigilance in Helicopter Maintenance Urged (pp 40-41) (V. Shmatov)	59
Militarization of U.S. "Second Economy" (pp 42-43) (N. Karasev) (not translated)	
Effectiveness of Special Maintenance Inspections Related (p 44) (V. Mayorov)	61
Airfield Maintenance Commander Demands Truthful Reporting (p 45) (V. Prudnik)	64
List of 1986 Soviet Space launches Given (pp 46-47) (Unattributed)	67

25 SEPTEMBER 1987

Soviet books and journal articles displaying a copyright notice are reproduced and sold by NTIS with permission of the copyright agency of the Soviet Union. Permission for further reproduction must be obtained from copyright owner.

SOVIET UNION
AVIATION & COSMONAUTICS
No 5, May 1987

[Except where indicated otherwise in the table of contents the following is a complete translation of the Russian-language monthly journal AVIATSIYA I KOSMONAVTIKA published in Moscow.]

CONTENTS

Commander's Initiative and Creativity (pp 1-3) (A. Borsuk)	1
Origin of Aerial Tactics Explored (pp 4-5) (G. Drugoveyko)	7
Measuring Up to Heroism (pp 6-7) (not translated)	
The Army Community (pp 7-8) (S. Gaveto) (not translated)	
Fear of Retribution Stifles Initiative (pp 9-11) (A. Zhilin)	12
A Propagandist's Vocation (pp 10-11) (I. Filatov) (not translated)	
Imperishable and Permanent Memory (pp 12-13) (S. Vachayev, V. Bezborodov) (not translated)	
A School of Ideological Growth (pp 14-15) (not translated)	

Caring Instructors Develop Good Pilots (pp 16-17)	17
Air Force Komsomol Sets Personal Example (pp 18-19)	23
Takeoff at Dawn (pp 20-23)	
(S. Lisitskiy) (not translated)	
Aircraft Maintenance Chief Earns Praise (pp 22-23)	
(A. Tarabrin)	27
Kurgan Military-Political (pp 24-25)	
(V. Knyazev) (not translated)	
Roads of Fire of Our Fathers (pp 26-27)	
(I. Yudin) (not translated)	
Air Force Assists in Chernobyl Disaster (pp 28-31)	
(V. Larin)	32
Red Military Pilots (pp 30-31)	
(Yu. Mantsurov, M. Mindrin) (not translated)	
Problem Training Method Improves Student Participation (pp 32-33)	
(V. Bobyr)	41
"Algebra" of Records and "Arithmetic" of Mistakes (pp 33-34)	
(A. Sinevich, V. Trusov, V. Mayorov) (not translated)	
The Bitter Taste of Sweet Glory (p 35)	
(N. Voloshanovskiy) (not translated)	
PMK Subroutines (p 36)	
(A. Andreyev, V. Rubin) (not translated)	
Velocity Navigation Triangle (p 37)	
(Yu. Mordukhovich) (not translated)	
Calculating a Flight Route (p 37)	
(V. Barmichev) (not translated)	
Behind the Screen of the Anti-Soviet Myth (pp 38-39)	
(V. Ovsyannikov) (not translated)	
Through the Mind and Heart (pp 40-41)	
(V. Lebedev) (not translated)	
"Proton" Creator (pp 42-43)	
(V. Rodikov) (not translated)	

"White Lightning" in the Attack (pp 46-47)
(V. Gnezdilov) (not translated)

In the Instructor's Arsenal of Methods (p 47) (V. Yusov) (not translated)

6 OCTOBER 1987

Soviet books and journal articles displaying a copyright notice are reproduced and sold by NTIS with permission of the copyright agency of the Soviet Union. Permission for further reproduction must be obtained from copyright owner.

SOVIET UNION AVIATION & COSMONAUTICS

No 6, June 1987

[Except where indicated otherwise in the table of contents the following is a complete translation of the Russian-language monthly journal AVIATSIIA I KOSMONAVTIKA published in Moscow.]

CONTENTS

Greater Discipline, Training for Flight Controllers Urged (pp 1-3) (P. Belonozhko)	1
Better Coordination of Ground, Air Fighter Control Sought (pp 4-5) (I. Kuzmenko)	7
Danger of Premature Opening of Brake Parachute Described (pp 5-6) (G. Rayevskiy)	11
Greater Security, Discipline in Guard Detail Described (p 7) (N. Starunov)	15
Restructuring Problems in Air Force Ideological Work Examined (pp 8-9) (V. Makeyev)	18
Air Force Personnel Discuss Pilot Professional Development (pp 10-11) (G. Drugoveyko)	25
Service Record of Decorated Helicopter Pilot Reviewed (pp 12-15) (Ye. Besschetnov)	32
Maintenance Procedures at Mountain Helicopter Pads Described (pp 14-15) (G. Shnyplkin)	39
Review of Safety Procedures in Thunder Clouds (p 16) (A. Zavodchenkov)	43

An Internationalist Fighter (p 17) (V. Goloveshkin) (not translated)	
Greater Attention Urged for Pilot Psychological Training (pp 18-19) (A. Zhilin)	46
Pilot. Pedagogue. Scientist (p 20) (A. Papchinskiy) (not translated)	
An Air Duel (p 21) (S. Davtyan) (not translated)	
Observe Technological Discipline (pp 22-23) (M. Vladimirov) (not translated)	
Follow-Up Article Discusses Better Preflight Medical Exams (pp 22-23) (Ye. Berezhnov, S. Motsar)	52
Loyal to Combat Traditions (pp 24-25) (Unattributed) (not translated)	
A Victory Accessible to All (pp 26-27) (V. Dolgishev) (not translated)	
Exercises Described for Crews of Long-Range Flights (p 28) (S. Melnik, A. Shakula, A. Semenov)	55
Wind in the Face (p 29) (A. Lukashov) (not translated)	
Over Three Poles (pp 30-31) (A. Dmitrichenkov) (not translated)	
High Quality for Adjustments (p 32) (P. Karpenko, Yu. Kuzmin) (not translated)	
Objective Monitoring Helps (p 33) (I. Baranov) (not translated)	
U.S. Military Efforts in Pacific Basin Viewed (pp 34-35) (S. Zenin)	58
Voyenizdat for the Aviation Reader (p 36) (S. Smirnov) (not translated)	
From Forecasting to Prevention (p 37) (V. Mayorov) (not translated)	
Born by Creativity (pp 38-39) (Unattributed) (not translated)	

Loyal Sons of the Fatherland (p 40) (Unattributed) (not translated)	
For Those Who Will Read in Order to Build (pp 40-41) (A. Podgornyy) (not translated)	
Technical Plans, Problems of Star Wars Examined (pp 42-43) (A Nelikhov)	63
Careful: Fungi! (p 44) (V. Gorkov) (not translated)	
The Outer Planets (pp 45-46) (L. Ksanfomaliti) (not translated)	



END OF

FICHE

DATE FILMED

19 July 1988